

January
Looking ahead to a
happy and productive...

new year of prosperity and opportunity

Belmont wishes you all the best



Pure metals and alloys.
Standard and custom shapes.



Belmont
M E T A L S I N C.

Belmont puts the shine on pure metals.

Hard to believe it, but it's been over a year since Belmont first began sending you these restyled and—we hope—fun-to-read information mailers. To date, we've covered many of the major metals we carry. But as one of the most diversified non ferrous metal suppliers in the U.S., Belmont also is a source for many of the so-called "minor" metals used in metal alloys and in pure form for the manufacture of chemicals and pharmaceuticals, and to add color to glass and fireworks. For this and the following editions, we focus on these metals that many manufacturers rely upon—either in pure form or alloyed with other metals—to provide a finished end-product.

Pure Metals
Featuring

Sb Antimony is a brittle silvery metal, seldom used in its pure state. It is ideal for alloying with Tin and Lead to add strength and hardness. Alloys that contain Antimony include babbitt (used in bearings), Pewter, jewelry casting alloys, and type metal. Large amounts of Antimonial Lead are used for battery grids, cable coverings, bullets, coffin trim, and silver-plated tableware.

Be Strong and light, Beryllium is used in its pure form for aircraft brakes, but a major use is in Beryllium Copper alloys for springs, electrical contacts, welding electrodes, non-sparking tools, and other high strength applications. The strength and ability to pick up fine detail makes Beryllium Copper useful for casting jewelry and as molds to make "wood-grain" plastic furniture parts, TV cabinets, and golf clubs. Belmont Beryllium Copper and Beryllium Aluminum master alloys are added to make Copper and Aluminum alloys more fluid and, in the case of Aluminum alloys, prevent Magnesium loss.



B Although non-metallic, Boron has important metallurgical uses, particularly its ability to deoxidize such metals as Copper without decreasing conductivity. Belmont is the exclusive U.S. manufacturer of 2% Boron Copper which is used to produce castings for devices such as power company switches that must withstand high electrical current.

Cd Despite its toxicity, Cadmium remains useful because other more benign metals fail to match its unique combination of corrosion-resistance, lubricity, strength, and ease-of-use. Indeed, alloys that don't contain this metal cannot duplicate Cadmium-based alloys. Large amounts of pure Cadmium are employed in electroplating—in fact, Cadmium plating has been required on all aircraft fasteners and other critical components where hardness and tight fit are critical. Cadmium Nickel babbitts are used when strength requirements exceed the capabilities of more common Tin- or Lead-base babbitts. Belmont's 50/50 Cadmium Copper is used to make special Copper alloys for automotive radiator cores and overhead electrical wire systems for trains, trolleys, and mining cars.



Look for More Metals Next Issue

Belmont Remembers Old Acquaintances Trivia Question

Belmont began sending you these mailings in September 1997. Do you remember our first Featured Metal? Bonus points: name its major properties.

Answer: Bismuth. An environmentally-safe alternative to Lead, Bismuth base alloys have low melting points, are easy to cast, and expand during solidification.

Belmont rings in another New Year...

Belmont Metals has a full range of pure metals and alloys with the qualities you need for almost any applications, in whatever custom shapes or sizes you require. With over 1,000 products in inventory and the creative expertise that only a company that's been in business for over a century can provide, Belmont provides the metals that do the job for you.

